L Number	Hits	Search Text	DB	Time stamp
13	2934	green adj tea	USPAT; EPO; JPO; DERWENT	2001/12/05 11:03
14	472	(green adj tea) same (green adj tea near extract)	USPAT; EPO; JPO; DERWENT	2001/12/05 11:04
15	472	green adj tea near extract	USPAT; EPO; JPO; DERWENT	2001/12/05 11:04
16	18	(green adj tea near extract) and chromium	USPAT; EPO; JPO; DERWENT	2001/12/05 11:05
17	0	((green adj tea near extract) and chromium) and hydroxytryptophan and methylbutyrate	USPAT; EPO; JPO; DERWENT	2001/12/05 11:22
18	55	"5htp"	USPAT; EPO; JPO; DERWENT	2001/12/05 11:22
19	239	hmb	USPAT; EPO; JPO; DERWENT	2001/12/05 11:22
20	0	"5htp" same hmb	USPAT; EPO; JPO; DERWENT	2001/12/05 11:23
21	0	"5htp" and hmb	USPAT; EPO; JPO; DERWENT	2001/12/05 11:23
22	1054	$methylbutyrate	USPAT; EPO; JPO; DERWENT	2001/12/05 11:23
23	548	$hydroxytryptophan	USPAT; EPO; JPO; DERWENT	2001/12/05 11:23
24	0	$methylbutyrate same $hydroxytryptophan	USPAT; EPO; JPO; DERWENT	2001/12/05 11:23
25	0	$methylbutyrate and $hydroxytryptophan	USPAT; EPO; JPO; DERWENT	2001/12/05 11:24

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[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

* * * * * * * * * * * *   Welcome to STN International   * * * * * * * * * * *

 NEWS  1            Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Dec 17  The CA Lexicon available in the CAPLUS and CA files
 NEWS  3  Feb 06  Engineering Information Encompass files have new names
 NEWS  4  Feb 16  TOXLINE no longer being updated
 NEWS  5  Apr 23  Search Derwent WPINDEX by chemical structure
 NEWS  6  Apr 23  PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
 NEWS  7  May 07  DGENE Reload
 NEWS  8  Jun 20  Published patent applications (A1) are now in USPATFULL
 NEWS  9  JUL 13  New SDI alert frequency now available in Derwent's
                  DWPI and DPCI
 NEWS 10  Aug 23  In-process records and more frequent updates now in
                  MEDLINE
 NEWS 11  Aug 23  PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
 NEWS 12  Aug 23  Adis Newsletters (ADISNEWS) now available on STN
 NEWS 13  Sep 17  IMSworld Pharmaceutical Company Directory name change
                  to PHARMASEARCH
 NEWS 14  Oct 09  Korean abstracts now included in Derwent World Patents
                  Index
 NEWS 15  Oct 09  Number of Derwent World Patents Index updates increased
 NEWS 16  Oct 15  Calculated properties now in the REGISTRY/ZREGISTRY File
 NEWS 17  Oct 22  Over 1 million reactions added to CASREACT
 NEWS 18  Oct 22  DGENE GETSIM has been improved
 NEWS 19  Oct 29  AAASD no longer available
 NEWS 20  Nov 19  New Search Capabilities USPATFULL and USPAT2
 NEWS 21  Nov 19  TOXCENTER(SM) - new toxicology file now available on STN
 NEWS 22  Nov 29  COPPERLIT now available on STN
 NEWS 23  Nov 29  DWPI revisions to NTIS and US Provisional Numbers
 NEWS 24  Nov 30  Files VETU and VETB to have open access

 NEWS EXPRESS  August 15 CURRENT WINDOWS VERSION IS V6.0c,
               CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
               AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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[illegible]
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[illegible]

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COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                      ENTRY   SESSION
FULL ESTIMATED COST   .48   .61

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DICTIONARY FILE UPDATES: 3 DEC 2001 HIGHEST RN 3"3353-24-3

TSCA INFORMATION NOW CURRENT THROUGH July ", 2001

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Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
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http://www.cas.org/ONLINE/STN/STNOTES/stnotes27".pdf

=> e 5-hydroxytryptophan

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=> e 5-hydroxytryptophan/rn

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=> e hydroxytryptophan/rn

[illegible]

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[illegible] American Chemical Society [illegible]

[illegible] FILE [illegible] HIGHEST RN [illegible]
[illegible] FILE [illegible] HIGHEST RN [illegible]

[illegible]

[illegible]
[illegible]

[illegible] See HELP [illegible] for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e hydroxytryptophan/cn

<------User Break------>
u
=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                        ENTRY    SESSION
FULL ESTIMATED COST                                      0.62       2.46

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
       BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
       CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
       DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'
ENTERED AT 11:09:52 ON 05 DEC 2001

59 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s green tea

          84   FILE ADISALERTS
           3   FILE ADISINSIGHT
          14   FILE ADISNEWS
         391   FILE AGRICOLA
         105   FILE ANABSTR
           3   FILE AQUASCI
         325   FILE BIOBUSINESS
           5   FILE BIOCOMMERCE
        1465   FILE BIOSIS
          16   FILE BIOTECHABS
          16   FILE BIOTECHDS
         230   FILE BIOTECHNO
         692   FILE CABA
         416   FILE CANCERLIT
        7641   FILE CAPLUS
          1[illegible]   FILE CEABA-VTB
          10   FILE CEN
          14   FILE CIN
          4[illegible]   FILE CONFSCI
           4   FILE [illegible]
[illegible]   FILE [illegible]
[illegible]   FILE [illegible]
[illegible]   FILE [illegible]
[illegible]
[illegible]
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 [illegible]   FILE [illegible]
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 [illegible]   FILE JICST-EPLUS
 [illegible]   FILE [illegible]
 [illegible]   FILE [illegible]
 [illegible]   FILE [illegible]
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 [illegible]   FILE NIOSHTIC
 11    FILE NTIS
  1    FILE OCEAN
 66[illegible]   FILE PASCAL
  3    FILE PHIN
 [illegible]   FILE PROMT
53 FILES SEARCHED...
 1466   FILE SCISEARCH
   1    FILE SYNTHLINE
 [illegible]   FILE TOXLIT
  575   FILE USPATFULL
 1303   FILE WPIDS
 1303   FILE WPINDEX

52 FILES HAVE ONE OR MORE ANSWERS,   59 FILES SEARCHED IN STNINDEX

L1    QUE GREEN TEA

=> s l1 (s) spray? (s) extract?

   4    FILE BIOSIS
   2    FILE BIOTECHNO
   1    FILE CABA
   1    FILE CROPU
21 FILES SEARCHED...
   1    FILE EMBASE
   2    FILE ESBIOBASE
   4    FILE FROSTI
   6    FILE FSTA
38 FILES SEARCHED...
   2    FILE IFIPAT
   1    FILE JICST-EPLUS
   1    FILE PASCAL
  26    FILE PROMT
   3    FILE SCISEARCH
   1    FILE TOXLIT
  21    FILE USPATFULL
  17    FILE WPIDS
58 FILES SEARCHED...
  17    FILE WPINDEX

1[illegible] FILES HAVE ONE OR MORE ANSWERS,   59 FILES SEARCHED IN STNINDEX

L2    QUE L1 (S) SPRAY? (S) EXTRACT?

=> [illegible]

F1          26    PROMT
F2          21    USPATFULL
[illegible]
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[illegible]

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=> s l2

L3 9 L2

=> dup rem l3

PROCESSING COMPLETED FOR L3
L4 6 DUP REM L3 (3 DUPLICATES REMOVED)

=> d l4 1- all

YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 6 SCISEARCH COPYRIGHT 2001 ISI (R)
AN 2001:872383 SCISEARCH
GA The Genuine Article (R) Number: 485UG
TI Effect of selenium spraying on green tea quality
AU Hu Q H (Reprint); Xu J; Pan G X
CS Hokkaido Univ, Grad Sch Agr, Res Grp Bioorgan Chem, Kita Ku, North 9, West 9, Sapporo, Hokkaido 0608589, Japan (Reprint); Nanjing Agr Univ, Coll Food Sci & Technol, Nanjing 210095, Peoples R China; Nanjing Agr Univ, Coll Resource & Environm Sci, Nanjing 210095, Peoples R China
CYA Japan; Peoples R China
SO JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, (NOV 2001) Vol. 81, No. 14, pp. 1387-1392.
Publisher: JOHN WILEY & SONS LTD, BAFFINS LANE CHICHESTER, W SUSSEX PO19 1UD, ENGLAND.
ISSN: 0022-5142.
DT Article; Journal
LA English
REC Reference Count: 13
AB This research was conducted to determine the effects of different selenium treatments on the sensory and chemical qualities of ***green*** ***tea*** harvested in the summer tea-producing season. ***Green*** ***tea*** was produced from fresh tea leaves ***sprayed*** with sodium selenite or organically bound selenium [illegible]. The results showed that [illegible]

[illegible] ***green*** ***tea*** [illegible] ***spraying*** [illegible]
[illegible]
[illegible]
ST Author Keywords: [illegible] green tea; [illegible] quality; [illegible] quality
RE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)
COMBS G F	1997		1	B SELENIUM TELLURIUM
DIAZALARCON J P	1994	42	2848	J AGR FOOD CHEM
FOSTER L H	1997	37	211	CRIT REV FOOD SCI
HOU S	1993	38	356	CHINESE SCI BULL
HOU S	1993	38	274	CHINESE SCI BULL
HU Q	1999	32	69	SCI AGR SINICA
HU Q H	2001	81	222	J SCI FOOD AGR
HU Q	2001	76	344	J HORTIC SCI BIOTECH
MAHAN D C	1996	74	2711	J ANIM SCI
MEJUTOMARTI M C	1988	36	293	J AGR FOOD CHEM
SLINKARD K	1977	28	49	AM J ENOL VITICULT
VALLE G	1993	24	1763	COMMUN SOIL SCI PLAN
XU Z	1996		18	PROCESSING TECHNOLOG

L4 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 1
AN 2001:326487 BIOSIS
DN PREV200100326487
TI Effect of selenium on green tea preservation quality and amino acid composition of tea protein.
AU Hu, Q. (1); Pan, G.; Zhu, J.
CS (1) College of Food Science and Technology, Nanjing Agricultural University, Nanjing, 210095: qinhuinj@hotmail.com China
SO Journal of Horticultural Science & Biotechnology, (May, 2001) Vol. 76, No. 3, pp. 344-346. print.
ISSN: 1462-0316.
DT Article
LA English
SL English
AB To increase the selenium content of tea produced in areas of China poor in selenium, sodium selenite was added to tea garden soil or was ***sprayed*** onto tea leaves. Effects of selenium on ***green*** ***tea*** quality and the amino acid composition of tea protein were studied. Selenium-enriched ***tea*** and poor selenium ***green*** ***tea*** were ***extracted*** with hot water (100degreeC) at a 1:50 ratio (w/v). The tea leaf ***extracts*** were stored at 5.degreeC for 12 h, the colour changes of selenium-enriched ***green*** ***tea*** ***extract*** were more stable than with poor selenium ***green*** ***tea*** ***extract*** . The teas were packaged in polypropylene plastic bags and then stored at room temperature for 90 d. The reduced ratio of vitamin C in selenium-enriched ***green*** ***tea*** was 21% compared with poor selenium content ***green*** ***tea*** at 5[illegible]%. These results demonstrated that selenium-enriched ***green*** ***tea*** produced a more desirable quality than poor selenium ***green*** ***tea*** . The total amino acid amount, essential amino acid, methionine acid and cystine acid content of different selenium-enriched ***green*** ***tea*** protein were increased by 8.3%-14.9%, 8.4%-14.8%, [illegible]% and [illegible]%, respectively, compared with the low selenium ***green*** ***tea*** . [illegible] ***green*** ***tea*** quality was [illegible] by selenium [illegible].
CC [illegible]
[illegible]

[illegible]

L4 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1980:275911 BIOSIS
DN BA70:68407
TI DIRECT DETERMINATION OF TRI CYCLO HEXYL TIN HYDROXIDE AND ITS RELATED COMPOUNDS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY WITH GRAPHITE FURNACE ATOMIZER.
AU SHIBA N; MATANO O; GOTO S
CS INST. ENVIRON. TOXICOL., KODAIRA, TOKYO 187, JPN.
SO J. PESTIC. SCI. (NIHON NOYAKU GAKKAISHI), (1980) 5 (2), 285-289.
CODEN: NNGADY. ISSN: 1348-1658.
FS BA; OLD
LA Japanese
AB Direct determination of cyclohexyltin derivatives by atomic absorption spectrophotometry with a graphite furnace atomizer (GFAA) was developed and this method was applied to residue analysis of tricyclohexyltin hydroxide in ***green*** ***tea*** and an orange ***sprayed*** with Plictran miticide. With a Hitachi 170-70 type GFAA (Zeeman effect [illegible]

IT Biochemical Methods - General *10050
Comparative Biochemistry, General *10010
Biochemical Studies - General *10060
Biophysics - General Biophysical Studies *10502
Enzymes - General and Comparative Studies; Coenzymes *11502
Physiology, General and Miscellaneous - General *12010
Pathology, General and Miscellaneous - General *12502
Toxicology - General; Methods and Experimental *22501
IT Major Concepts
Biochemistry and Molecular Biophysics; Methods and Techniques
IT Chemicals & Biochemicals
antioxidant compounds: analysis, screening, characterization; enzymes; hypoxanthine; luminol; superoxide anion radicals; xanthine oxidase
IT Methods & Equipment
liquid chromatography-chemiluminescence detection: analytical method, chromatographic techniques; on-line screening methods; Detection/Labeling Techniques, analytical method; Finnigan MAT LCQ ion trap mass spectrometer: Finnigan, equipment; H-P 1100 series liquid chromatograph: Hewlett-Packard, equipment; SPD-6A UV detector: Shimadzu, equipment
IT Miscellaneous Descriptors
chemiluminescence reactions; enzyme reactions
RN 521-31-3 (LUMINOL)
11062-77-4 (SUPEROXIDE)
9002-17-9 (XANTHINE OXIDASE)
68-94-0 (HYPOXANTHINE)

[illegible] ***green*** ***tea*** [illegible]
extraction [illegible]
[illegible]
detection were 0.5 ppm in 5 g of ***green*** ***tea***, 0.01 ppm in 20 g of orange peel and 0.006 ppm in 50 g of orange flesh and orange juice. Recoveries from ***green*** ***tea*** fortified at the 2.0 ppm level, orange flesh (0.1 ppm), orange peel (0.3 ppm) and orange juice (0.1 ppm) were 91, 94, 87 and 100%, respectively. No acid digestion and a series of solvent ***extraction*** steps were required for this analysis.

CC Comparative Biochemistry, General 10010
Biochemical Methods - Minerals *10059
Biochemical Studies - General 10060
Biochemical Studies - Minerals 10069
Biophysics - General Biophysical Techniques 10504
Movement 12100
Food Technology - General; Methods *13502
Food Technology - Fruits, Nuts and Vegetables *13504
Food Technology - Malts, Brews and Other Fermentation Products *13512
Food Technology - Evaluations of Physical and Chemical Properties *13530
Toxicology - Foods, Food Residues, Additives and Preservatives *22502
Toxicology - Environmental and Industrial Toxicology 22506
Public Health: Environmental Health - Air, Water and Soil Pollution 37015
Horticulture - Tropical and Subtropical Fruits and Nuts; Plantation Crops 53004
Pest Control, General; Pesticides; Herbicides *54600
Economic Entomology - Chemical and Physical Control, General; Apparatus 60016

BC Rutaceae 26685
Theaceae 26845

IT Miscellaneous Descriptors
GREEN TEA ORANGE JUICE ORANGE PEEL ORANGE FLESH PLICTRAN MITICIDE DI CYCLO HEXYL TIN OXIDE MONO CYCLO HEXYL STANNONIC-ACID

RN 7782-42-5 (GRAPHITE)
13121-70-5 (TRI CYCLO HEXYL TIN HYDROXIDE)
13121-70-5 (PLICTRAN)
22771-17-1 (DI CYCLO HEXYL TIN OXIDE)

L4 ANSWER 6 OF 6 TOXLIT
AN 1972:17786 TOXLIT
DN CA-077-084389C
TI Effectiveness of different [illegible] for [illegible] petroleum growth substance in tea culture.
AU Mamedov AM
CS Inst. Pochvoved. Agrokhim., Baku, USSR
SO NRV (Neft. Rostovye Veshchestvo) Sel. Khoz., Tr. Vses. Soveshch. [illegible] Primen. NRV Sel. Khoz., 3rd, (1971) pp. 246-8.
CODEN: 25DUA6.
FS CA
LA Russian
OS CA 77:84389
EM 197210
AB [illegible]

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FILE 'BIOSIS' ENTERED AT 16:[illegible]
* ST IN THIS FILE *                                    JOIN'D FILE      FILES
                                                          ENTRY    SESSION
FILE PREVIOUSLY ACCESSED                                  16.5       ...'''

INDEX 'BIOSIS', BIOTECHNO, BIOBUSINESS, BIOSIS, CABA, CANCERLIT, DRUGU,
      EMBASE, ESBIOBASE, FROSTI, FSTA, JICST-EPLUS, MEDLINE, PASCAL,
      TOXLINE, USPATFULL, WPIDS, WPINDEX, AGRICOLA, DDFU, ...'
ENTERED AT 16:[illegible] ON STN
>>> FILES IN THE FILE LIST IN STNINDEX

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=> s l1 (s) error? (s) extract?

          0   FILE AGRICOLA
          1   FILE BIOBUSINESS
          6   FILE BIOSIS
          2   FILE BIOTECHNO
          5   FILE CABA
          1   FILE CANCERLIT
          1   FILE DDFU
  24 FILES SEARCHED...
          3   FILE DRUGU
          3   FILE EMBASE
          4   FILE ESBIOBASE
          4   FILE FROSTI
          5   FILE FSTA
          1   FILE JICST-EPLUS
  44 FILES SEARCHED...
          3   FILE MEDLINE
          3   FILE PASCAL
         26   FILE TOXLINE
          6   FILE USPATFULL
          5   FILE USPATFULL
          4   FILE WPIDS
          4   FILE WPINDEX

  20 FILES HAVE ONE OR MORE ANSWERS,   59 FILES SEARCHED IN STNINDEX

L5   QUE L1 (S) ENRICH? (S) EXTRACT?

=> d rank

F1          26   TOXLINE
F2           6   BIOSIS
F3           6   USPATFULL
F4           5   CABA
F5           5   FSTA
F6           5   USPATFULL
F7           4   ESBIOBASE
F8           4   FROSTI
F9           4   WPIDS
F10          4   WPINDEX
F11          3   AGRICOLA
F12          3   DRUGU
F13          3   EMBASE
F14          3   MEDLINE
F15          3   PASCAL
F16              [illegible]
[illegible]      [illegible]
[illegible]      [illegible]
[illegible]      [illegible]
[illegible]      [illegible]
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[illegible]

CC Horticulture - General; Miscellaneous and Mixed Crops *58012

IT Major Concepts
Agrichemicals; Horticulture (Agriculture*); Foods; Nutrition

IT Parts, Structures, & Systems of Organisms
leaf

IT Chemicals & Biochemicals
amino acids; protein; selenium; nutrient; sodium selenate; fertilizer

IT Miscellaneous Descriptors
green tea beverage, composition, preservation quality, quality, tea leaves

GT China (Palearctic region)

ORGN Super Taxa
Theaceae; Dicotyledones, Angiospermae, Spermatophyta, Plantae

ORGN Organism Name
tea (Theaceae); plantation crop

ORGN Organism Superterms
Angiosperms; Dicots; Plants; Spermatophytes; Vascular Plants

RN 7782-49-2 (SELENIUM)
13410-01-0 (SODIUM SELENATE)

L7 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 2

AN 2000:57957 BIOSIS

DN PREV200000057957

TI Supplementation of Jurkat T cells with green tea extract decreases oxidative damage due to iron treatment.

AU Erba, Daniela; Riso, Patrizia (1); Colombo, Anna; Testolin, Giulio

CS (1) Department of Food Science and Microbiology, Division of Human Nutrition, University of Milan, Milan Italy

SO Journal of Nutrition, (Dec., 1999) Vol. 129, No. 12, pp. 2130-2134. ISSN: 0022-3166.

DT Article

LA English

SL English

AB Regular tea consumption has been associated with a reduced risk of cancer. As demonstrated in vitro, ***green*** ***tea*** contains catechins with antioxidant properties. We evaluated the effect of the supplementation of the Jurkat T-cell line with ***green*** ***tea*** ***extract*** on oxidative damage. Cells grown in medium with or without ***green*** ***tea*** ***extract*** (10 mg/L) were treated with Fe2+ (100 mmol/L) as an oxidative stimulus for 2 h. Cell membrane lipid peroxidation was evaluated by fatty acids pattern analysis and malondialdehyde production in alpha-linolenic acid-loaded cells. Furthermore, oxidative DNA damage (single strand breaks) was detected in cells by the Comet assay and quantified as relative tail moment (RTM). Supplementation with ***green*** ***tea*** ***extract*** significantly decreased malondialdehyde production (1.6 +- 0.3 vs. 3.6 +- 0.1 nmol/mg protein, P < 0.05) and DNA damage (7.82 +- 1.11 vs. 0.12 +- 0.1 RTM, P < 0.05) after Fe2+ oxidative treatment. In cells [illegible] there was no effect on membrane distribution of n-6 fatty acids [illegible] ***green*** ***tea*** ***extract*** [illegible]

[illegible]

L7 ANSWER 3 OF 7 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 3
AN 1998:54770 BIOSIS
DN PREV199800054772
TI Selenium enrichment of tea from some areas of China.
AU Wang, Meizhu [1]
CS [1] Div. Selenium Res., Zhejiang Agric. Univ., Hangzhou 310029 China
SO Journal of Plant Nutrition, (Dec., 1998) Vol. 21, No. 12, pp. 2557-2564.
ISSN: 0190-4167.
DT Article
LA English
AB The levels of selenium (Se) in soils and rocks and Se ***enrichment*** of tea as well as factors affecting Se ***extraction*** rate from tea were studied. The Se content for 133 tea samples varied from 0.021 to 5.774 mg kg-1 with a minimum value of 0.001 mg Se kg-1, while some other teas had a maximum value of 4.82 mg Se kg-1. The Se content of tea was in a logarithmic normal distribution and its geometric mean value was 0.120 mg Se kg-1. The Se content of soil parent materials and rocks were highly correlated with the Se content in tea leaves. Rock stratum rich in Se occurred in Paleozoic siliceous shales and carbonaceous-siliceous shales of the Permian, Ordovician, and Cambrian periods. Total Se ***extraction*** rate of tea in three ***extractions*** was 25.6% (black tea and ***green*** ***tea*** were 24.9% and 26.2%, respectively), and the ***extraction*** rate for the first, second, and third times were 50.9%, 27.3%, and 21.8% of the total Se ***extracted*** , respectively. Based on factors, such as the Se content in tea, daily quantity of tea drunk, Se ***extraction*** rate of tea, and the normal Se dietary requirement, we would suggest that the Se index for tea rich in Se is within the range from 0.40 to 1.55 mg Se kg-1.
CC Horticulture - Tropical and Subtropical Fruits and Nuts; Plantation Crops *53004
Nutrition - Minerals *13206
Plant Physiology, Biochemistry and Biophysics - Nutrition *51504
BI Theaceae 26845
MT Major Concepts
Horticulture (Agriculture); Nutrition.
CT Chemicals & Biochemicals
Selenium: enrichment, fertilizer
PT China (Palearctic region)
ORGN Super Taxa
Theaceae (Dicotyledons, Angiosperms, Spermatophytes, Plantae
ORGN Organism Name
tea (Theaceae) crop
ORGN Organism Superterms
Angiosperms; Dicots; Plants; Spermatophytes; Tracheophytes
RN [illegible]

VR [illegible]
JO PHARMACOLOGICAL RESEARCH, [illegible]
PD [illegible]
PY [illegible]
VL [illegible]
AB [illegible] with different tea ***extracts*** together with a cholesterol-***enriched*** diet for another 9 weeks. Chinese ***green*** ***tea*** and jasmine tea, both with a minimum degree of fermentation, were found to have significant serum and liver cholesterol lowering effects. They also reduced the increase in liver weight due to lipid deposition. All tea treatments lowered the atherogenic index and increased the HDL-total cholesterol ratio, while HDL-cholesterol and triglyceride levels were not significantly affected. Analysis of catechin levels in tea ***extracts*** showed that the individual catechin component in Chinese ***Green*** ***tea*** and jasmine tea were significantly higher than the others. (-)-Epicatechin gallate and(-)-epigallocatechin gallate in the tea ***extracts*** may account for their hypocholesterolemic effect. (C) 1997 The Italian Pharmacological Society.
DE PHARMACOLOGY & PHARMACY
GT Author Keywords: hypercholesterolemia; tea; catechins
STP KeyWords Plus (R): GREEN TEA; DENSITY-LIPOPROTEIN; LIPID-PEROXIDATION; RAT-LIVER; CHOLESTEROL; EXTRACT; SERUM; HYPERCHOLESTEROLEMIA; CONSUMPTION; METABOLISM
RF 95-3463 002; CHOLESTERYL ESTER TRANSFER PROTEIN GENE; NATIVE PLASMA; DISTURBED HDL CONVERSION IN TANGIER DISEASE
RE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)
ANDO T	1989	17	21	B KANAGAWA DENT COLL
FOLCH J	1957	226	497	J BIOL CHEM
GLOMSET J A	1968	9	155	J LIPID RES
GRAHAM H N	1992	21	334	PREV MED
HERTOG M G	1993	342	1007	LANCET
HO C T	1992	21	520	PREV MED
HOFMANN A F	1964	43	247	J CLIN INVEST
IKEDA I	1992	1127	141	BIOCHIM BIOPHYS ACTA
JACOBS N J	1960	88	260	ARCH BIOCHEM BIOPHYS
KADA T	1985	150	127	MUTAT RES
LEE S Y	1991	49	941	LIFE SCI
MATSUDA H	1996	17	213	J ETHNOPHARMACOL
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MURAMATSU K	1986	32	2613	J NUTR SCI VITAMINOL
MYANT N B	1957	18	135	J LIPID RES
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REAVEN G M	1991	229	816	J INTERN MED
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SANO M	1995	18	1016	BIOL PHARM BULL
SANO M	1996	34	221	CHEM PHARM BULL
SEIBLER L	1981	27	814	CLIN CHEM
SHEFER S	1969	11	946	J LIPID RES
STENGVIST I	1979	21	416	PREV MED
TALL A R	1993	34	378	J CLIN INVEST
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

AU [illegible], [illegible]; [illegible], [illegible]; [illegible], [illegible]; [illegible], [illegible]; [illegible], [illegible]

CS [illegible]

SO [illegible], [illegible], [illegible], [illegible]
ISSN: [illegible]

DT Article

LA [illegible]

AB We have examined the [illegible] ***extracts*** [illegible] [illegible] ***[illegible]*** [illegible] enzymes, namely 1A1 and 3A4, prepared from human lymphoblastoid cells. As a comparison, we also studied control microsomes, which contained negligible amounts of cytochrome P450. We observed antioxidant effects with both control and P450-containing microsomes in the case of grapefruit, ***[illegible]*** ***[illegible]***, coffee, tarragon and rosemary ***[illegible]***. [illegible] effects were observed for the [illegible] ***extracts*** [illegible], cauliflower and brussels sprouts for all three microsome groups. Differences in the degree of lipid peroxidation between microsomes containing P450s 1A1/3A4 and control microsomes were seen for apple, tomato and parsnip peel ***extracts***. The antioxidant properties of some of the food ***extracts*** were therefore modified by the presence of specific P450s. The results demonstrate the potential of P450-***enriched*** microsomes in determining the antioxidant properties of food ***extracts*** and components.

CC Cytology and Cytochemistry - Human *02508
Biochemical Studies - General *10060
Enzymes - General and Comparative Studies; Coenzymes *10806
Metabolism - General Metabolism; Metabolic Pathways *13002
Food Technology - General; Methods *13502

BC Hominidae *86215

IT Major Concepts
Biochemistry and Molecular Biophysics; Cell Biology; Enzymology (Biochemistry and Molecular Biophysics); Foods; Metabolism

IT Chemicals & Biochemicals
CYTOCHROME P450S

IT Miscellaneous Descriptors
ANTIOXIDANT PROPERTIES; BIOBUSINESS; BIOCHEMISTRY AND BIOPHYSICS; CYTOCHROME P450S; FOODS; FRUIT EXTRACTS; LIPID; LYMPHOBLASTOID CELL MICROSOMES; PEROXIDATION; VEGETABLE EXTRACTS

ORGN Super Taxa
Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGN Organism Name
human (Hominidae)

ORGN Organism Superterms
animals; chordates; humans; mammals; primates; vertebrates

RN 9035-51-2 (CYTOCHROME P450S)

L7 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 6

AN 1990:[illegible] BIOSIS

DN BA90:[illegible]

TI PREVENTIVE EFFECTS OF GREEN TEA EXTRACT ON LIPID ABNORMALITIES IN SERUM LIVER AND AORTA OF MICE FED A ATHEROGENIC DIET.

AU YAMAGUCHI Y; HAYASHI M; YAMAZOE H; KUNITOMO M

CS DEP. PHARMACOL., FAC. PHARMACEUTICAL SCI., MUKOGAWA WOMEN'S UNIV., 11-68 KOSHIEN KYUBAN-CHO, NISHINOMIYA 663, JPN.

SO FOLIA PHARMACOL JPN, (1991) [illegible] ([illegible]), [illegible].
CODEN: NYKZAU. ISSN: [illegible].

FS BA; OLD

LA Japanese

AB [illegible]

[illegible]

BC Biochemical Studies - General *10060
Biochemical Studies - Digestion *10080
Biochemical Studies - Enzymes *10100
Biochemical Studies - Sterols and Steroids *11067
Pathology, General and Miscellaneous - Therapy *12612
Nutrition - Pathogenic Diets *13216
Digestive System - Pathology *14016
Cardiovascular System - Blood Vessel Pathology *14609
Pharmacology - Cardiovascular System *22011
Plant Physiology, Biochemistry and Biophysics - Chemical Constituents 81521
Pharmacognosy and Pharmaceutical Botany *84000

BC Theaceae 26845
Muridae 86375

IT Miscellaneous Descriptors
ANTIATHEROGENIC AGENT CHOLESTEROL LINOLEIC ACID CHOLIC ACID

RN 57-88-5 (CHOLESTEROL)
60-33-3 (LINOLEIC ACID)
81-25-4 (CHOLIC ACID)

L7 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1982:142394 BIOSIS
DN BA73:23778
TI METHODS FOR THE RATIONAL UTILIZATION OF THE BYPRODUCTS OF TEA PRODUCTION.
AU DZNELADZE Z YU
SO SUBTROP KUL'T, (1981) 3 (1), 41-45.
CODEN: SUKUA8. ISSN: 0491-4031.
FS FA; OLD
LA Russian.
AB Control processing of the agricultrually harvested tea leaf for black and ***green*** ***tea*** was conducted in order to study the mechanical and chemical composition of tea byproducts (petioles, rhizomes, blades and powder). By means of rational tea byproduct utilization (in which black tea is ***enriched*** by introducing a mixture of tea ***extractives*** and sugar into the tea mass in the rolling process), a series of very important problems (involving increasing the quality of Soviet tea, expanding the assortment of tea products and creating conditions for waste-free tea production) can be resolved simultaneously.
CC Comparative Biochemistry, General 10017
Biochemical Methods - General 10050
Biochemical Studies - General 10060
Biochemical Studies - Carbohydrates 10180
External Effects - Physical and Mechanical Effects 10612
Food Technology - General; Methods 13502
Food Technology - Malts, Brews and Other Fermentation Products *13512
Food Technology - Evaluations of Physical and Chemical Properties *13531
Food Technology - Preparation, Processing and Storage *13534
Morphology, Anatomy and Embryology of Plants 31001
Plant Physiology, Biochemistry and Biophysics - Chemical Constituents 81521
Horticulture - Tropical and Subtropical Fruits and Nuts; Plantation Crops 84010
[illegible]
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
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NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 POTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 29, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 09 JAPIO to be reloaded August 25, 2002
NEWS 20 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 21 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 22 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 23 Aug 26 Sequence searching in REGISTRY enhanced

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Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e beta hydroxy beta methylbutyrate/cn

E1            1     BETA GLOBULIN/CN
E2            1     BETA GLOBULINS/CN
E3            0 --> BETA HYDROXY BETA METHYLBUTYRATE/CN
E4            1     BETA III/CN
E5            1     BETA LACTAMASE (PLASMID IBBRIMUS-4)/CN
E6            1     BETA LACTAMASE (XANTHOMONAS AXONOPODIS CITRI STRAIN 306 GENE
                     BLA)/CN
E7            1     BETA LACTAMASE (XANTHOMONAS CAMPESTRIS CAMPESTRIS STRAIN ATC
                     C33913 GENE BLA)/CN
E8            1     BETA LACTAMASE PRECURSOR (AQUIFEX AEOLICUS GENE CPHA1)/CN
E9            1     BETA LACTAMASE PRECURSOR (AQUIFEX AEOLICUS GENE CPHA2)/CN
E10           1     BETA LACTAMASE PROTEIN (RALSTONIA SOLANACEARUM STRAIN SMI100
                     0 GENE RSC0258)/CN
E11           1     BETA LACTAMASE-RELATED PROTEIN (DEINOCOCCUS RADIODURANS STRA
                     IN R1 GENE DRA0241)/CN
E12           1     BETA LACTOGLOBULINS/CN

=> e beta-hydroxy beta-methylbutyrate/cn

E1            1     BETA-HEXOSAMINIDASE A PRECURSOR (EC 3.2.1.52) (BETA-HEXOSAMINIDASE A (BETA-N-ACETYLHEXOSAMINIDASE A) (HEXOSAMINIDASE A) (HEXOSAMINIDASE ALPHA CHAIN) (HEXOSAMINIDASE S) (BETA-D-HEXOSAMINE N-ACETYLHYDROLASE A)) (CLONE 1) (FRAGMENT)/CN
E2            1     BETA-HEXOSAMINIDASE PRECURSOR (EC 3.2.1.52) (BETA-N-ACETYLHEXOSAMINIDASE) (N-ACETYL-BETA-GLUCOSAMINIDASE) (BETA-D-HEXOSAMINE N-ACETYLHYDROLASE) (HEXOSAMINIDASE A) (HEXOSAMINIDASE B) (HEXOSAMINIDASE S) (BETA-D-HEXOSAMINE N-ACETYLHYDROLASE A) (BETA-D-HEXOSAMINE N-ACETYLHYDROLASE B)/CN
E3            0 --> BETA-HYDROXY BETA-METHYLBUTYRATE/CN
E4            1     BETA-HYDROXY-BETA-(2,5-DIMETHOXYPHENYL-(3(BENZOYLAMINO HYDRO
                     XY)/CN
E5            1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE)/CN
E6            1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE, (+)-)/CN
E7            1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE, (-)-)/CN
E8            1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE, HYDROCHLORIDE)/CN
E9            1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE, HYDROCHLORIDE, (+)-)/CN
E10           1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE, HYDROCHLORIDE, (-)-)/CN
E11           1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE, MONOHYDROCHLORIDE)/CN
E12           1     BETA-HYDROXY BETA-METHYLBUTYRATE (BASED ON 1-(3-(BENZOYLAMIN
                     O)-2-HYDROXY-3-(2,5-DIMETHOXYPHENYL)PROPYL)-4-PHENYLPIPERAZ
                     INE, MONOHYDROCHLORIDE, (+)-)/CN
```

```
[illegible]      BETA-HYDROXY [illegible] [illegible]
                 [illegible] STRAIN [illegible]
[illegible]      [illegible] TRAIN [illegible]
[illegible]      BETA-HYDROXY [illegible]
                 [illegible]

[illegible]

[illegible]                                  SINCE FILE     TOTAL
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=> s beta-hydroxy beta-methylbutyrate

       1122228 BETA
        307885 HYDROXY
       1122228 BETA
          1077 METHYLBUTYRATE
L1          38 BETA-HYDROXY BETA-METHYLBUTYRATE
                 (BETA(W)HYDROXY(W)BETA(W)METHYLBUTYRATE)

=> d l1 1- all

YOU HAVE REQUESTED DATA FROM 38 ANSWERS - CONTINUE? Y/(N):y


L1   ANSWER 1 OF 38  CAPLUS  COPYRIGHT 2002 ACS
AN   [illegible]  CAPLUS
TI   Reversal of cancer-related wasting using oral supplementation with a
     combination of ***beta*** -***hydroxy*** -***beta*** -
       ***methylbutyrate*** , arginine, and glutamine
AU   May, [illegible]; Barber, Annabel; [illegible]
     [illegible]
CS   [illegible]
     [illegible], USA
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
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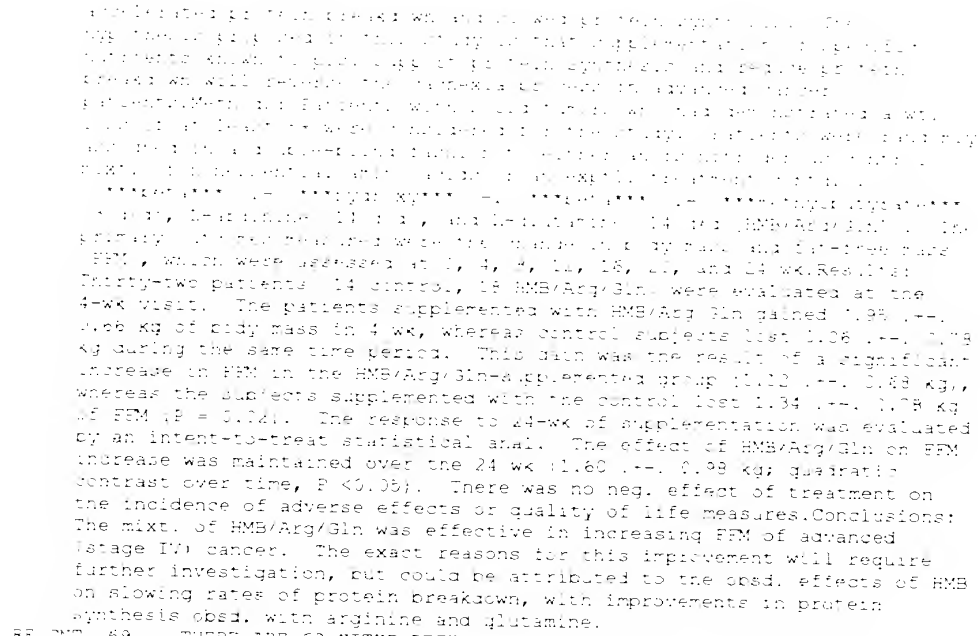

Thirty-two patients (14 control, 18 HMB/Arg/Gln) were evaluated at the 4-wk visit. The patients supplemented with HMB/Arg/Gln gained 1.08 +/- 0.68 kg of body mass in 4 wk, whereas control subjects lost 1.06 +/- 0.78 kg during the same time period. This gain was the result of a significant increase in FFM in the HMB/Arg/Gln-supplemented group (1.12 +/- 0.88 kg), whereas the subjects supplemented with the control lost 1.34 +/- 1.78 kg of FFM (P = 0.024). The response to 24-wk of supplementation was evaluated by an intent-to-treat statistical anal. The effect of HMB/Arg/Gln on FFM increase was maintained over the 24 wk (1.60 +/- 0.98 kg; quadratic contrast over time, P <0.05). There was no neg. effect of treatment on the incidence of adverse effects or quality of life measures.Conclusions: The mixt. of HMB/Arg/Gln was effective in increasing FFM of advanced (stage IV) cancer. The exact reasons for this improvement will require further investigation, but could be attributed to the obsd. effects of HMB on slowing rates of protein breakdown, with improvements in protein synthesis obsd. with arginine and glutamine.

RE.CNT 69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD

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(36) Lehmann, [illegible]
(37) Lehmann, [illegible]
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L1 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2002 ACS
AN 2002:76782 CAPLUS
DN 136:262517
TI Short-term [illegible] ***beta*** [illegible] ***hydroxy*** [illegible] ***beta*** [illegible] ***methylbutyrate*** supplementation does not reduce symptoms of eccentric muscle damage

AU Paddon-Jones, Douglas; Keech, Andrew; Jenkins, David
CS The University of Queensland, Brisbane, 4072, Australia

SO International Journal of Sport Nutrition and Exercise Metabolism (2001), 11(4), 442-450
CODEN: IJSNAA; ISSN: 1526-484X
PB Human Kinetics Publishers, Inc.
DT Journal
LA English
CC 18-5 (Animal Nutrition)

AB Purpose: We examd. the effects of short-term [illegible] ***beta*** [illegible] ***hydroxy*** [illegible] ***beta*** [illegible] ***methylbutyrate*** (HMB) supplementation on symptoms of muscle damage following an acute bout of eccentric exercise. Methods: Non-resistance trained subjects were randomly assigned to a HMB supplement group (HMB, 40mg/kg bodyweight/day, n=8) or placebo group (CON, n=9). Supplementation commenced 6 days prior to a bout of 24 maximal isokinetic eccentric contractions of the elbow flexors and continued throughout post-testing. Muscle soreness, upper arm girth, and torque measures were assessed pre-exercise, 15 min post-exercise, and 1, 2, 3, 4, 7, and 10 days post-exercise. Results: No pre-test differences between HMB and CON groups were identified, and both performed a similar amt. of eccentric work during the main eccentric exercise bout (p>0.05). HMB supplementation had no effect on swelling, muscle soreness, or torque following the damaging eccentric exercise bout (p>0.05). Conclusions: Compared to a placebo condition, short-term supplementation with 40mg/kg bodyweight/day of HMB had no beneficial effect on a range of symptoms associated with eccentric muscle damage. If HMB can produce an ergogenic response, a longer pre-exercise supplementation period may be necessary.

ST Hydroxymethylbutyrate supplementation eccentric exercise muscle damage
IT Exercise

[illegible] eccentric; short-term ***beta*** [illegible] ***hydroxy*** [illegible] ***beta*** [illegible] ***methylbutyrate*** supplementation [illegible] muscle damage

IT Muscle, [illegible]

[illegible] short-term ***beta*** [illegible] ***hydroxy*** [illegible] ***beta*** [illegible] ***methylbutyrate*** supplementation [illegible]

IT Human

[illegible], [illegible]

[illegible] ***beta*** [illegible] ***hydroxy*** [illegible] ***beta*** [illegible] ***methylbutyrate*** supplementation [illegible]

[illegible] ***beta*** - ***hydroxy*** -
beta - ***methylbutyrate*** [illegible]
symptoms of eccentric muscle damage

IT [illegible]

[illegible] ***beta*** - ***hydroxy*** - ***beta*** -
methylbutyrate [illegible]
[illegible] muscle damage

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD

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(3) Bruzzone, P; Surgery 1991, V109, P768 MEDLINE
(4) Clarkson, P; Clin Sci 1987, V73, P383 MEDLINE
(5) Clarkson, P; J Appl Physiol 1988, V65, P1 MEDLINE
(6) Ebbeling, C; Sports Med 1989, V7, P207 MEDLINE
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(18) Paddon-Jones, D; Med Sci Sports Exerc 2001, V33, P1213 MEDLINE
(19) Phillips, S; Am J Physiol 1999, V276(1 Pt1), PE118
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(21) Warren, G; Sports Med 1999, V27(1), P43 MEDLINE

L1 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 2001:776508 CAPLUS
DN 136:293185
TI Influence of HMB (***beta*** - ***hydroxy*** - ***beta*** - ***methylbutyrate***) on antibody secreting cells (ASC) after in vitro and in vivo immunization with the anti-Yersinia ruckeri vaccine of rainbow trout (Oncorhynchus mykiss)

AU Siwicki, Andrzej K.; Morand, Marc; Fuller, John C., Jr.; Nissen, Steven; Kazun, Krzysztof; Glombski, Edward
CS Department of Microbiology and Clinical Immunology, Faculty of Veterinary Medicine, University in Olsztyn, Olsztyn, 10-957, Pol.

SO Veterinary Research (2001), 32(5), 491-498
CODEN: VEREEM; ISSN: 0928-4249
PB EDP Sciences
DT Journal
LA English
CC 15-3 (Immunochemistry)
Section cross-reference(s): 12

AB In practice, protection of fish against disease by immunization is of limited effectiveness. Therefore, research is concd. on how to improve
<------User Break------>

each in 35 mm sterile wells with medium contg. HMB at concns. of 0, 0.1, 1, 5, 10, 25, 50 or 100 [illegible]g/mL of medium. The spleens from 81 fish were injected with the vaccine and incubated at 18 [illegible]degree.C for 10 days. For the in vivo study, fish were fed pellets contg. HMB at doses of 0, 10, 25 and 50 mg/kg bw per day. After 2 wk of HMB supplementation, the fish were immunized by i.p. injection of the vaccine. At 7, 14, 18, 21, 28 and 35 days after immunization, [illegible]
[illegible]

[illegible]

[illegible]
antibody-secreting cells after immunization with anti-Yersinia ruckeri
vaccine in rainbow trout

IT Immunostimulants
[illegible]
Vaccines
Yersinia ruckeri
Influence of hydroxymethylbutyrate on antibody-secreting cells after
immunization with anti-Yersinia ruckeri vaccine in rainbow trout

IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
influence of hydroxymethylbutyrate on antibody-secreting cells after
immunization with anti-Yersinia ruckeri vaccine in rainbow trout.

IT 625-08-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(influence of hydroxymethylbutyrate on antibody-secreting cells after
immunization with anti-Yersinia ruckeri vaccine in rainbow trout

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Anderson, D; Annu Rev Fish Dis 1992, V2, P281
(2) Anderson, D; Prog Fish Cult 1994, V56, P259
(3) de Luca, D; Eur J Immunol 1983, V13, P546 MEDLINE
(4) Ellis, A; Dis Aquat Org 1988, V4, P159
(5) Fuller, J; Poult Sci 1994, V73, P93
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(7) Grayson, T; J Fish Biol 1987, V31, P195 CAPLUS
(8) Morand, M; Vet Res 1999, V30, P411 CAPLUS
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(10) Nissen, S; J Appl Physiol 1996, V81, P2095 CAPLUS
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(16) Peterson, A; Vet Immunol Immunopathol 1999, V67, P67 CAPLUS
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(19) Siwicki, A; Dev Comp Immunol 1990, V14, P231 CAPLUS
(20) Siwicki, A; J Appl Ichthyol 1998, V14, P225 CAPLUS
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(22) Talleyrand, V; FASEB J 1994, V8, PA951

L1 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2002 ACS
AN 2001:771922 CAPLUS
DN 136:53109
TI . ***beta*** .- ***hydroxy*** -. ***beta*** .- ***methylbutyrate***
(HMB) kinetics and the influence of glucose ingestion in humans
AU Vukovich, Matthew D.; Slater, Gary; Macchi, Martina B.; Turner, Michael
J.; Fallon, Keiren; Boston, Tanya; Rathmacher, John
CS Applied Physiology Laboratory, South Dakota State University, Brookings,
SD, USA
SO Journal of Nutritional Biochemistry (2001), 12(11), 631-639
CODEN: JNBIEL; ISSN: 0955-2863
PB Elsevier Science Inc.
DT Journal
LA English
CC 18-4 (Animal Nutrition)
AB The dietary supplement HMB decreases muscle proteolysis during exercise
and disease states. The time course kinetics of HMB and effects of
glucose ingestion on the kinetics were examd. in humans. In Study 1, a
[illegible]

[illegible]

[illegible]
[illegible]

[illegible]
IN Nissen, Steven L.
PA Iowa State University Research Foundation, Inc., USA
SO U.S., [illegible] pp.
CODEN: USXXAM
DT Patent
LA English
IC ICM A61K031-19
NCL 514557000
CC 1-11 (Pharmacology)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6291525	B1	20010918	US 1999-391830	19990909

AB The invention provides a method for improving a human's perception of his emotional state. The method comprises administering .beta.-hydroxy-.beta.-methylbutyric acid to the human in an amt. sufficient to improve his perception of his emotional state. The method can further comprise co-administering arginine and glutamine and/or engaging the human in non-resistance training.

ST arginine glutamine hydroxymethylbutyrate emotional state perception
IT AIDS (disease)
Beverages
Drug delivery systems
Emotion
(.beta.-hydroxy-.beta.-methylbutyric acid for improving human perception of emotional state)
IT 56-85-9, Glutamine, biological studies 74-79-3, Arginine, biological studies 625-08-1 625-08-1D, chromium complex 625-08-1D, esters, lactones, and salts 1823-52-5 6149-45-7 [illegible]-3D, Chromium, ***.beta.*** - ***hydroxy*** - ***.beta.*** - ***methylbutyrate*** complex, biological studies 18267-36-2 135236-72-5 155206-13-6 155206-14-[illegible] 159804-18-9
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(.beta.-hydroxy-.beta.-methylbutyric acid for improving human perception of emotional state)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

(1) Mero, A; Sports Medicine 1999, V27(6), P347

L1 ANSWER [illegible] OF [illegible] CAPLUS COPYRIGHT 2002 ACS
AN 2001:[illegible] CAPLUS
DN 135:226329
TI Body composition in [illegible]-year-old adults responds to dietary . ***beta*** .- ***hydroxy*** -. ***beta*** .- ***methylbutyrate*** similarly to that of young adults
AU Vukovich, Matthew D.; Stubbs, Nancy B.; Bohlken, Ruth M.
CS South Dakota State University, Brookings, SD, [illegible], USA
SO Journal of Nutrition (2001), 131([illegible]), 2049-2052
CODEN: JONUAI; ISSN: 0022-3166
PB American Society for Nutritional Sciences
DT Journal
LA English
[illegible]

[illegible]

*** ANSWERS INITIALIZED ***
[illegible]

E1	1	BETA-HEXOSAMINIDASE PRECURSOR (XYLELLA FASTIDIOSA GENE XF184 7)/CN
E2	1	BETA-HYDROXY-BETA- 2,6-DIMETHOXYPHENOL.-ISOPROPYLAMINE HYDRO CHLORIDE/CN
E3	3 -->	BETA-HYDROXY-BETA-METHYLBUTYRATE/CN
E4	1	BETA-HYDROXYACYL-ACP DEHYDRATASE (ARABIDOPSIS THALIANA GENE AT2G22230-/CN
E5	1	BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES STR AIN MGAS315 GENE FABZ1/CN
E6	1	BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES STR AIN SF370 GENE FABZ)/CN
E7	1	BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYROGENES ST RAIN MGAS8232 GENE SPYM18-1818)/CN
E8	1	BETA-HYDROXYBUTYRYL-COA DEHYDROGENASE NAD-DEPENDENT (CLOSTRI DIUM PERFRINGENS STRAIN 13 GENE CPE2297)/CN
E9	1	BETA-HYDROXYBUTYRYL-COA DEHYDROGENASE RELATED PROTEIN (THERM OPLASMA ACIDOPHILUM STRAIN DSM1728 GENE TA0947)/CN
E10	1	BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE (ESCHERICHIA COLI S TRAIN O157:H7 GENE ECS1038)/CN
E11	1	BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE (TRANS-2-DECENOYL-A CP ISOMERASE) (SALMONELLA ENTERICA TYPHIMURIUM STRAIN LT2; S BSC 1412; ATCC 700720 GENE FABA)/CN
E12	1	BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE, TRANS-2-DECENOYL-A CP ISOMERASE (ESCHERICHIA COLI O157:H7 STRAIN EDL933 GENE FA BA)/CN

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[illegible]

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B1              1       BETAHISTINE B1
B2              1       BETAMIDA MY B1
B3                --> BETAMIDA MY METHYLBUTYRATE B1
B4              1       [illegible] B1
B5              .       METAIN B1
B6             **       [illegible] B1
B7              1       METAINASE B1
B8            ****      OPTAINE B1
B9              .       BETAINE;B1
B10             1       BETAINEHYDRID B1
B11             1       BETAINEPYRIDYL B1
B12            35       BETAINES B1

--> e betahydroxy betamethylbutyrate cn

E1              1       BETAHISTINE MESYLATE CN
E2              1       BETAHISTINE N-OXIDE CN
E3              1 --> BETAHYDROXY BETAMETHYLBUTYRATE CN
E4              1       BETAINE CN
E5              1       BETAINE 2-METHYL-3-(3-SULFOPROPYL)BENZOTHIAZOLIUM CN
E6              1       BETAINE 3,4-DIMETHYLPHENYLIODONIOACETYLCARBETHOXYMETHANE CN
E7              1       BETAINE 30 CN
E8              1       BETAINE AAB CN
E9              1       BETAINE ABC TRANSPORTER ATP BINDING PROTEIN (LACTOCOCCUS LAC
                        TIS LACTIS STRAIN IL1403 GENE BUSAA) CN
E10             1       BETAINE ABC TRANSPORTER PERMEASE AND SUBSTRATE BINDING PROTE
                        IN (LACTOCOCCUS LACTIS LACTIS STRAIN IL1403 GENE BUSAB) CN
E11             1       BETAINE ALDEHYDE CN
E12             1       BETAINE ALDEHYDE DEHYDROGENASE CN

--> e beta-hydroxy-methyl butyrate cn

E1              1       BETA-HEXOSAMINITASE PRECURSOR (XYLELLA FASTIDIOSA GENE XF084
                        7) CN
E2              1       BETA-HYDROXY-BETA-(3,5-DIMETHOXY-4-HENOL)-ISOPROPYLAMINE HYDRO
                        CHLORIDE CN
E3              1 --> BETA-HYDROXY-METHYL BUTYRATE CN
E4              1       BETA-HYDROXYACYL-ACP DEHYDRATASE (ARABIDOPSIS THALIANA GENE
                        AT2G22230) CN
E5              1       BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES STR
                        AIN MGAS315 GENE FABZ) CN
E6              1       BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES STR
                        AIN SF370 GENE FABZ) CN
E7              1       BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES ST
                        RAIN MGAS8232 GENE SPYM18-1819) CN
E8              1       BETA-HYDROXYBUTYRYL-COA DEHYDROGENASE NAD-DEPENDENT (CLOSTRI
                        DIUM PERFRINGENS STRAIN 13 GENE CPE2278) CN
E9              1       BETA-HYDROXYBUTYRYL-COA DEHYDROGENASE RELATED PROTEIN (THERM
                        OPLASMA ACIDOPHILUM STRAIN DSM[illegible] GENE TA1947) CN
E10             1       BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE (ESCHERICHIA COLI S
                        TRAIN O157:H7 GENE ECS13391) CN
E11             1       BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE (TRANS-2-DECENOYL-A
                        CP ISOMERASE) (SALMONELLA ENTERICA TYPHIMURIUM STRAIN LT2; J
                        GID 1412; ATCC 20612) GENE FABA CN
E12             1       BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE, TRANS-2-DECENOYL-A
                        CP ISOMERASE (ESCHERICHIA COLI O157:H7 STRAIN EDL933) GENE FA
                        BA CN

--> e [illegible]

[illegible]
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L11             1      BETA1/BI
L1              1      BETA1/BI

L12 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2012 ACS on STN

L1              1      BETA-(R)-[(METHYLAMINO)(OXO)ACETYL]-L-ALANINE, N-[(1,1-DIMETHYLETHOXY)CARBONYL]-L-LEUCYL-N-[(1S)-2-HYDROXY-1-(PHENYLMETHYL)ETHYL]-L-ALANINAMIDE, BETA-(R)-[(METHYLAMINO)(OXO)ACETYL]-L-ALANINE, N-[(1,1-DIMETHYLETHOXY)CARBONYL]-L-LEUCYL-N-[(1S)-2-HYDROXY-1-(PHENYLMETHYL)ETHYL]-L-ALANINAMIDE, BETA-(R)-[(METHYLAMINO)(OXO)ACETYL]-L-ALANINE, N-[(1,1-DIMETHYLETHOXY)CARBONYL]-L-LEUCYL-N-[(1S)-2-HYDROXY-1-(PHENYLMETHYL)ETHYL]-L-ALANINAMIDE

L1              --- BETA-HYDROXY-BETA-METHYLBUTYRATE

E1              1      BETA-HYDROXYACYL-ACP DEHYDRATASE (ARABIDOPSIS THALIANA GENE AT2G22230)/CN
E5              1      BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES STRAIN M3A3315 GENE FABZ)/CN
E6              1      BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES STRAIN SF3... GENE FABZ)/CN
E7              1      BETA-HYDROXYACYL-ACP DEHYDRATASE (STREPTOCOCCUS PYOGENES STRAIN MGAS9232 GENE SPYM18_1919)/CN
E8              1      BETA-HYDROXYBUTYRYL-COA DEHYDROGENASE NAD-DEPENDENT (CLOSTRIDIUM PERFRINGENS STRAIN 13 GENE CPE2297)/CN
E9              1      BETA-HYDROXYBUTYRYL-COA DEHYDROGENASE RELATED PROTEIN (THERMOPLASMA ACIDOPHILUM STRAIN DSM1728 GENE TA0947)/CN
E10             1      BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE (ESCHERICHIA COLI STRAIN O157:H7 GENE ECS1038)/CN
E11             1      BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE (TRANS-2-DECENOYL-ACP ISOMERASE) (SALMONELLA ENTERICA TYPHIMURIUM STRAIN LT2; SGSC 1412; ATCC 700720 GENE FABA)/CN
E12             1      BETA-HYDROXYDECANOYL THIOESTER DEHYDRASE, TRANS-2-DECENOYL-ACP ISOMERASE (ESCHERICHIA COLI O157:H7 STRAIN EDL933 GENE FABA)/CN

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NEWS 17 Aug 26 PHARMAMarketLetter(PHARMAML) - new on STN

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[illegible] NEWS ARTICLE [illegible]
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        [illegible]
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       BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
       CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
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  17 FILES SEARCHED...
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  3[illegible] FILES SEARCHED...
  3[illegible] FILES SEARCHED...
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